

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 101**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

35122

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, with hood, boots, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

Not tested

**Agents Protected Against**

**Biological Warfare (BW)**

Not specified

**Agents Protected Against**

# WORKING DRAFT

## **Toxic Industrial Materials(TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel fax-on-demand service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

7 lb/ctn and 12 unit/ctn

### **Package Size and Volume**

16 in L x 10 1/4 in W x 14 1/8 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Sewn seam—overedge serged seam construction offers protection against many dry particulates and light sprays

### **Color**

Yellow and Grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$100/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

### **Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

# WORKING DRAFT

**Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

**Accessories**

None

**Special Requirements****Training Requirements**

No special training required

**Training Available**

Yes. DuPont will provide specialized group training upon request.

**Manuals Available**

Permeation Guide available

**Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

**Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

**Testing Information**

Physical properties:

Basis weight (ASTM D3776–85) 2.1 oz/yd<sup>2</sup>

Thickness (ASTM D1777–64) 6.0 mils

Mullen burst (ASTM D3786–87) 66 psi

Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb

Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb

Permeation data available by calling 1–877–797–5907 or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

**Applicable Regulations**

None

**Health Hazards**

None

**Communications Interface Capability**

Not applicable

**EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 102**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

35124

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, respirator hood, boots, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Not tested

**Biological Warfare (BW)  
Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials(TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

7 lb/ctn and 12 unit/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Sewn seam—overedge serged seam construction offers protection against many dry particulates and light sprays

### **Color**

Yellow and Grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$111/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

### **Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

# WORKING DRAFT

**Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

**Accessories**

None

**Special Requirements****Training Requirements**

No special training required

**Training Available**

Yes. DuPont will provide specialized group training upon request.

**Manuals Available**

Permeation Guide available

**Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

**Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

**Testing Information**

Physical properties:

Basis weight (ASTM D3776–85) 2.1 oz/yd

Thickness (ASTM D1777–64) 6.0 mils

Mullen burst (ASTM D3786–87) 66 psi

Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb

Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb

Permeation data available by calling 1–877–797–5907 or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

**Applicable Regulations**

None

**Health Hazards**

None

**Communications Interface Capability**

Not applicable

**EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 103**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

35125

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, elastic wrist, and ankles

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

Not tested

**Agents Protected Against**

**Biological Warfare (BW)**

Not specified

**Agents Protected Against**

# WORKING DRAFT

## **Toxic Industrial Materials(TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

6 lb/ctn and 12 unit/ctn

### **Package Size and Volume**

16 in L x 10 1/4 in W x 14 1/8 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Sewn seam—overedge serged seam construction offers protection against many dry particulates and light sprays

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$80/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.



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<b>Use/Reuse</b>	Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.
<b>Launderability</b>	Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.
<b>Accessories</b>	None

## **Special Requirements**

<b>Training Requirements</b>	No special training required
<b>Training Available</b>	Yes. DuPont will provide specialized group training upon request.
<b>Manuals Available</b>	Permeation Guide available
<b>Surveillance Testing Requirements</b>	Visual inspection (for holes and tears) prior to use
<b>Support Equipment</b>	Appropriate respiratory, foot, eye/face, hand, and head protection
<b>Testing Information</b>	Physical properties: Basis weight (ASTM D3776–85) 2.1 oz/yd <sup>2</sup> Thickness (ASTM D1777–64) 6.0 mils Mullen burst (ASTM D3786–87) 66 psi Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb Permeation data available by calling 1–877–797–5907 or go to <a href="http://www.dupont.com/tyvek/protective-apparel">www.dupont.com/tyvek/protective-apparel</a>
<b>Applicable Regulations</b>	None
<b>Health Hazards</b>	None
<b>Communications Interface Capability</b>	Not applicable
<b>EOD Compatibility</b>	Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 104**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

35127

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, elastic wrist, and ankles

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

Not specified

**Agents Protected Against**

**Biological Warfare (BW)**

Not specified

**Agents Protected Against**

# WORKING DRAFT

## **Toxic Industrial Materials(TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

6 lb/ctn and 12 unit/ctn

### **Package Size and Volume**

16 in L x 10 1/4 in W x 14 1/8 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Sewn seam—overedge serged seam construction offers protection against many dry particulates and light sprays

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$87/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

### **Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

# WORKING DRAFT

**Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

**Accessories**

None

**Special Requirements****Training Requirements**

No special training required

**Training Available**

Yes. DuPont will provide specialized group training upon request.

**Manuals Available**

Permeation Guide available

**Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

**Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

**Testing Information**

Physical properties:

Basis weight (ASTM D3776–85) 2.1 oz/yd<sup>2</sup>

Thickness (ASTM D1777–64) 6.0 mils

Mullen burst (ASTM D3786–87) 66 psi

Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb

Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb

Permeation data available by calling 1–877–797–5907 or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

**Applicable Regulations**

None

**Health Hazards**

None

**Communications Interface Capability**

Not applicable

**EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 105**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

37120

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Not tested

**Biological Warfare (BW)  
Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel fax-on-demand service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel fax-on-demand service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

6 lb/ctn and 12 units/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Bound seam—tightly sewn seam is reinforced with an outer binding to further enhance seam strength and barrier quality

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user. Compatible with all commercial cooling systems.

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$100/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

<b>Use/Reuse</b>	Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.
<b>Launderability</b>	Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.
<b>Accessories</b>	None
<b><u>Special Requirements</u></b>	
<b>Training Requirements</b>	No special training required
<b>Training Available</b>	Yes. DuPont will provide specialized group training upon request.
<b>Manuals Available</b>	Permeation Guide available
<b>Surveillance Testing Requirements</b>	Visual inspection (for holes and tears) prior to use
<b>Support Equipment</b>	Appropriate respiratory, foot, eye/face, hand, and head protection
<b>Testing Information</b>	Physical properties: Basis weight (ASTM D3776–85) 2.1 oz/yd <sup>2</sup> Thickness (ASTM D1777–64) 6.0 mils Mullen burst (ASTM D3786–87) 66 psi Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb Permeation data available by calling 1–877–797–5907 or go to <a href="http://www.dupont.com/tyvek/protective-apparel">www.dupont.com/tyvek/protective-apparel</a>
<b>Applicable Regulations</b>	None
<b>Health Hazards</b>	None
<b>Communications Interface Capability</b>	Not applicable
<b>EOD Compatibility</b>	Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 106**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

37122

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, boot, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Not tested

**Biological Warfare (BW)  
Agents Protected Against**

Not specified



# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

8 lb/ctn and 12 units/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Bound seam—tightly sewn seam is reinforced with an outer binding to further enhance seam strength and barrier quality

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user. Compatible with all commercial cooling systems.

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$124/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

**Use/Reuse**

Discard after use. Decontamination specific to chemical exposure.  
Disposal per jurisdictional regulations.

**Laundryability**

Not applicable. Not intended for reuse after exposure to toxic chemicals.  
Dirt and dust can be manually removed with soap and water.

**Accessories**

None

**Special Requirements****Training Requirements**

No special training required

**Training Available**

Yes. DuPont will provide specialized group training upon request.

**Manuals Available**

Permeation Guide available

**Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

**Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

**Testing Information**

Physical properties:  
Basis weight (ASTM D3776–85) 2.1 oz/yd<sup>2</sup>  
Thickness (ASTM D1777–64) 6.0 mils  
Mullen burst (ASTM D3786–87) 66 psi  
Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb  
Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb  
Permeation data available by calling 1–877–797–5907 or go to  
[www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

**Applicable Regulations**

None

**Health Hazards**

None

**Communications Interface Capability**

Not applicable

**EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 107**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

37124

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, respirator fit hood, boots, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

Not tested

**Agents Protected Against**

**Biological Warfare (BW)**

Not specified

**Agents Protected Against**

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

7 lb/ctn and 12 units/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Bound seam—tightly sewn seam is reinforced with an outer binding to further enhance seam strength and barrier quality

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user. Compatible with all commercial cooling systems.

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$131/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

**Use/Reuse**

Discard after use. Decontamination specific to chemical exposure.  
Disposal per jurisdictional regulations.

**Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals.  
Dirt and dust can be manually removed with soap and water.

**Accessories**

None

**Special Requirements****Training Requirements**

No special training required

**Training Available**

Yes. DuPont will provide specialized group training upon request.

**Manuals Available**

Permeation Guide available

**Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

**Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

**Testing Information**

Physical properties:  
Basis weight (ASTM D3776–85) 2.1 oz/yd<sup>2</sup>  
Thickness (ASTM D1777–64) 6.0 mils  
Mullen burst (ASTM D3786–87) 66 psi  
Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb  
Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb  
Permeation data available by calling 1–877–797–5907 or go to  
[www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

**Applicable Regulations**

None

**Health Hazards**

None

**Communications Interface Capability**

Not applicable

**EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 108**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

37125

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, elastic wrist, and ankle

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Not tested

**Biological Warfare (BW)  
Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

7 lb/ctn and 12 units/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Bound seam—tightly sewn seam is reinforced with an outer binding to further enhance seam strength and barrier quality

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user. Compatible with all commercial cooling systems.

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$105/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

<b>Use/Reuse</b>	Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.
<b>Laundryability</b>	Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.
<b>Accessories</b>	None
<b><u>Special Requirements</u></b>	
<b>Training Requirements</b>	No special training required
<b>Training Available</b>	Yes. DuPont will provide specialized group training upon request.
<b>Manuals Available</b>	Permeation Guide available
<b>Surveillance Testing Requirements</b>	Visual inspection (for holes and tears) prior to use
<b>Support Equipment</b>	Appropriate respiratory, foot, eye/face, hand, and head protection
<b>Testing Information</b>	Physical properties: Basis weight (ASTM D3776–85) 2.1 oz/yd <sup>2</sup> Thickness (ASTM D1777–64) 6.0 mils Mullen burst (ASTM D3786–87) 66 psi Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb Permeation data available by calling 1–877–797–5907 or go to <a href="http://www.dupont.com/tyvek/protective-apparel">www.dupont.com/tyvek/protective-apparel</a>
<b>Applicable Regulations</b>	None
<b>Health Hazards</b>	None
<b>Communications Interface Capability</b>	Not applicable
<b>EOD Compatibility</b>	Compatible with EOD suit



# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 109**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

37127

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, elastic wrist, and ankles

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

Not tested

**Agents Protected Against**

**Biological Warfare (BW)**

Not specified

**Agents Protected Against**

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

7 lb/ctn and 12 units/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Bound seam—tightly sewn seam is reinforced with an outer binding to further enhance seam strength and barrier quality

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user. Compatible with all commercial cooling systems.

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$114/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

<b>Use/Reuse</b>	Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.
<b>Launderability</b>	Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.
<b>Accessories</b>	None

## **Special Requirements**

<b>Training Requirements</b>	No special training required
<b>Training Available</b>	Yes. DuPont will provide specialized group training upon request.
<b>Manuals Available</b>	Permeation Guide available
<b>Surveillance Testing Requirements</b>	Visual inspection (for holes and tears) prior to use
<b>Support Equipment</b>	Appropriate respiratory, foot, eye/face, hand, and head protection
<b>Testing Information</b>	Physical properties: Basis weight (ASTM D3776–85) 2.1 oz/yd <sup>2</sup> Thickness (ASTM D1777–64) 6.0 mils Mullen burst (ASTM D3786–87) 66 psi Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb Permeation data available by calling 1–877–797–5907 or go to <a href="http://www.dupont.com/tyvek/protective-apparel">www.dupont.com/tyvek/protective-apparel</a>
<b>Applicable Regulations</b>	None
<b>Health Hazards</b>	None
<b>Communications Interface Capability</b>	Not applicable
<b>EOD Compatibility</b>	Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® SL Coverall*

**ID# 110**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

41122

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, boot, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

**Agents Protected Against**

Nerve agents (GB and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)**

**Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

A broad range of liquid chemicals. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

Fabric test data: Average breakthrough time  
VX: Greater than 12 h at 10 g/m<sup>2</sup>  
GB, and L: Greater than 6 h at 10 g/m<sup>2</sup>  
D: Greater than 3 h at 10 g/m<sup>2</sup>. For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Recommended Use(s)**

Emergency response, crisis management, remediation, medical triage, minor invasive surgical operations, and decon

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

4 lb/ctn and 4 units/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Thermo Bond seam—sewn and taped. This exceptionally strong and chemical resistant seam construction provides a reliable barrier against heavy liquid splashes and rigorous seam stress.

### **Color**

White

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$131/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

# WORKING DRAFT

## **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

## **Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

## **Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

## **Accessories**

None

## **Special Requirements**

### **Training Requirements**

No special training required

### **Training Available**

Yes. DuPont will provide specialized group training upon request.

### **Manuals Available**

Permeation Guide available

### **Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

### **Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

### **Testing Information**

Physical properties:

Basis weight (ASTM D3776–85) 3.1 oz/yd<sup>2</sup>

Thickness (ASTM D1777–64) 10.3 mils

Mullen burst (ASTM D3786–87) 78 psi

Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 42/45 lb

Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 11/9 lb

Permeation data available by calling 1–877–797–5907 or go to

[www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

### **Applicable Regulations**

None

### **Health Hazards**

None

### **Communications Interface Capability**

Not applicable

### **EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® SL Coverall*

**ID# 111**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

41125

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, elastic wrist, and ankle

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

**Agents Protected Against**

Nerve agents (GB and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)**

**Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

A broad range of liquid chemicals. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

Fabric test data: Average breakthrough time  
VX: Greater than 12 h at 10 g/m<sup>2</sup>  
GB, and L: Greater than 6 h at 10 g/m<sup>2</sup>  
D: Greater than 3 h at 10 g/m<sup>2</sup>. For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Recommended Use(s)**

Emergency response, crisis management, remediation, medical triage, minor invasive surgical operations, and decon

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

4 lb/ctn and 4 unit/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Thermo Bond seam—sewn and taped. This exceptionally strong and chemical resistant seam construction provides a reliable barrier against heavy liquid splashes and rigorous seam stress.

### **Color**

White

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$105/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials



# WORKING DRAFT

## **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

## **Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

## **Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

## **Accessories**

None

## **Special Requirements**

### **Training Requirements**

No special training required

### **Training Available**

Yes. DuPont will provide specialized group training upon request.

### **Manuals Available**

Permeation Guide available

### **Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

### **Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

### **Testing Information**

Physical properties:

Basis weight (ASTM D3776–85) 3.1 oz/yd<sup>2</sup>

Thickness (ASTM D1777–64) 10.3 mils

Mullen burst (ASTM D3786–87) 78 psi

Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 42/45 lb

Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 11/9 lb

Permeation data available by calling 1–877–797–5907 or go to

[www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

### **Applicable Regulations**

None

### **Health Hazards**

None

### **Communications Interface Capability**

Not applicable

### **EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® SL Coverall*

**ID# 112**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

41127

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, elastic wrist, and ankles

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

**Agents Protected Against**

Nerve agents (GB and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)**

**Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

A broad range of liquid chemicals. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

Fabric test data: Average breakthrough time  
VX: Greater than 12 h at 10 g/m<sup>2</sup>  
GB, and L: Greater than 6 h at 10 g/m<sup>2</sup>  
D: Greater than 3 h at 10 g/m<sup>2</sup>. For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Recommended Use(s)**

Emergency response, crisis management, remediation, medical triage, minor invasive surgical operations, and decon

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

4 lb/ctn and 4 unit/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Thermo Bond seam—sewn and taped. This exceptionally strong and chemical resistant seam construction provides a reliable barrier against heavy liquid splashes and rigorous seam stress.

### **Color**

White

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$112/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

# WORKING DRAFT

**Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

**Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

**Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

**Accessories**

None

**Special Requirements****Training Requirements**

No special training required

**Training Available**

Yes. DuPont will provide specialized group training upon request.

**Manuals Available**

Permeation Guide available

**Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

**Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

**Testing Information**

Physical properties:

Basis weight (ASTM D3776–85) 3.1 oz/yd<sup>2</sup>

Thickness (ASTM D1777–64) 10.3 mils

Mullen burst (ASTM D3786–87) 78 psi

Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 42/45 lb

Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 11/9 lb

Permeation data available by calling 1–877–797–5907 or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

**Applicable Regulations**

None

**Health Hazards**

None

**Communications Interface Capability**

Not applicable

**EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® SL Coverall*

**ID# 113**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

41187

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, expanded back, socks, boots with flaps, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Nerve agents (GB and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)  
Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

A broad range of liquid chemicals. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

Fabric test data: Average breakthrough time  
VX: Greater than 12 h at 10 g/m<sup>2</sup>  
GB, and L: Greater than 6 h at 10 g/m<sup>2</sup>  
GD: Greater than 3 h at 10 g/m<sup>2</sup>. For specific test data on TIMs, call the DuPont Protective Apparel fax-on-demand service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

## **Recommended Use(s)**

Emergency response, crisis management, remediation, medical triage, minor invasive surgical operations, and decon

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

3 lb/ctn and 2 units/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Thermo Bond seam—sewn and taped. This exceptionally strong and chemical resistant seam construction provides a reliable barrier against heavy liquid splashes and rigorous seam stress.

### **Color**

White

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$97/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

# WORKING DRAFT

## **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

## **Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

## **Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

## **Accessories**

None

## **Special Requirements**

### **Training Requirements**

No special training required

### **Training Available**

Yes. DuPont will provide specialized group training upon request.

### **Manuals Available**

Permeation Guide available

### **Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

### **Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

### **Testing Information**

Physical properties:  
Basis weight (ASTM D3776–85) 3.1 oz/yd<sup>2</sup>  
Thickness (ASTM D1777–64) 10.3 mils  
Mullen burst (ASTM D3786–87) 78 psi  
Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 42/45 lb  
Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 11/9 lb  
Permeation data available by calling 1–877–797–5907 or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

### **Applicable Regulations**

None

### **Health Hazards**

None

### **Communications Interface Capability**

Not applicable

### **EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

Name

ID# 114

*Tychem® SL Coverall*



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

41256

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, socks, boots with flaps, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Nerve agents (GB and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)  
Agents Protected Against**

Not specified



# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

A broad range of liquid chemicals. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

Fabric test data: Average breakthrough time  
VX: Greater than 12 h at 10 g/m<sup>2</sup>  
GB, and L: Greater than 6 h at 10 g/m<sup>2</sup>  
D: Greater than 3 h at 10 g/m<sup>2</sup>. For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

## **Recommended Use(s)**

Emergency response, crisis management, remediation, medical triage, minor invasive surgical operations, and decon

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

5 lb/ctn and 4 unit/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Thermo Bond seam—sewn and taped. This exceptionally strong and chemical resistant seam construction provides a reliable barrier against heavy liquid splashes and rigorous seam stress.

### **Color**

White

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$162/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

# WORKING DRAFT

**Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

**Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

**Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

**Accessories**

None

**Special Requirements****Training Requirements**

No special training required

**Training Available**

Yes. DuPont will provide specialized group training upon request.

**Manuals Available**

Permeation Guide available

**Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

**Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

**Testing Information**

Physical properties:

Basis weight (ASTM D3776–85) 3.1 oz/yd<sup>2</sup>

Thickness (ASTM D1777–64) 10.3 mils

Mullen burst (ASTM D3786–87) 78 psi

Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 42/45 lb

Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 11/9 lb

Permeation data available by calling 1–877–797–5907 or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

**Applicable Regulations**

None

**Health Hazards**

None

**Communications Interface Capability**

Not applicable

**EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

**ID# 115**

***Tychem® SL Coverall***



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

42120

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Nerve agents (GB and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)  
Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

A broad range of liquid chemicals. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

Fabric test data: Average breakthrough time  
VX: Greater than 12 h at 10 g/m<sup>2</sup>  
GB, and L: Greater than 6 h at 10 g/m<sup>2</sup>  
D: Greater than 3 h at 10 g/m<sup>2</sup>. For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Recommended Use(s)**

Emergency response, crisis management, remediation, medical triage, minor invasive surgical operations, and decon

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

9 lb/ctn and 12 unit/ctn

### **Package Size and Volume**

16 in L x 10 1/4 in W x 14 1/8 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Bound seam—tightly sewn seam is reinforced with an outer binding to further enhance seam strength and barrier quality

### **Color**

White

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$165/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

**Use/Reuse**

Discard after use. Decontamination specific to chemical exposure.  
Disposal per jurisdictional regulations.

**Laundryability**

Not applicable. Not intended for reuse after exposure to toxic chemicals.  
Dirt and dust can be manually removed with soap and water.

**Accessories**

None

**Special Requirements****Training Requirements**

No special training required

**Training Available**

Yes. DuPont will provide specialized group training upon request.

**Manuals Available**

Permeation Guide available

**Surveillance Testing  
Requirements**

Visual inspection (for holes and tears) prior to use

**Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

**Testing Information**

Physical properties:  
Basis weight (ASTM D3776–85) 3.1 oz/yd<sup>2</sup>  
Thickness (ASTM D1777–64) 10.3 mils  
Mullen burst (ASTM D3786–87) 78 psi  
Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 42/45 lb  
Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 11/9 lb  
Permeation data available by calling 1–877–797–5907 or go to  
[www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

**Applicable Regulations**

None

**Health Hazards**

None

**Communications Interface  
Capability**

Not applicable

**EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® SL Coverall*

**ID# 116**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

42122

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, boot, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Nerve agents (GB and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)  
Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

A broad range of liquid chemicals. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

Fabric test data: Average breakthrough time  
VX: Greater than 12 h at 10 g/m<sup>2</sup>  
GB, and L: Greater than 6 h at 10 g/m<sup>2</sup>  
D: Greater than 3 h at 10 g/m<sup>2</sup>. For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Recommended Use(s)**

Emergency response, crisis management, remediation, medical triage, minor invasive surgical operations, and decon

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

11 lb/ctn and 12 unit/ctn

### **Package Size and Volume**

16 in L x 10 1/4 in W x 14 1/8 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Bound seam—tightly sewn seam is reinforced with an outer binding to further enhance seam strength and barrier quality

### **Color**

White

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$190/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

<b>Use/Reuse</b>	Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.
<b>Launderability</b>	Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.
<b>Accessories</b>	None
<b><u>Special Requirements</u></b>	
<b>Training Requirements</b>	No special training required
<b>Training Available</b>	Yes. DuPont will provide specialized group training upon request.
<b>Manuals Available</b>	Permeation Guide available
<b>Surveillance Testing Requirements</b>	Visual inspection (for holes and tears) prior to use
<b>Support Equipment</b>	Appropriate respiratory, foot, eye/face, hand, and head protection
<b>Testing Information</b>	Physical properties: Basis weight (ASTM D3776–85) 3.1 oz/yd <sup>2</sup> Thickness (ASTM D1777–64) 10.3 mils Mullen burst (ASTM D3786–87) 78 psi Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 42/45 lb Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 11/9 lb Permeation data available by calling 1–877–797–5907 or go to <a href="http://www.dupont.com/tyvek/protective-apparel">www.dupont.com/tyvek/protective-apparel</a>
<b>Applicable Regulations</b>	None
<b>Health Hazards</b>	None
<b>Communications Interface Capability</b>	Not applicable
<b>EOD Compatibility</b>	Compatible with EOD suit



# WORKING DRAFT

## General

**Name**

***Tychem® SL Coverall***

**ID# 117**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

42124

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, respirator hood, boots, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Nerve agents (GB and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)  
Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

A broad range of liquid chemicals. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

Fabric test data: Average breakthrough time  
VX: Greater than 12 h at 10 g/m<sup>2</sup>  
GB, and L: Greater than 6 h at 10 g/m<sup>2</sup>  
D: Greater than 3 h at 10 g/m<sup>2</sup>. For specific test data on TIMs, call the DuPont Protective Apparel fax-on-demand service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Recommended Use(s)**

Emergency response, crisis management, remediation, medical triage, minor invasive surgical operations, and decon

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

12 lb/ctn and 12 unit/ctn

### **Package Size and Volume**

16 in L x 10 1/4 in W x 14 1/8 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Bound seam—tightly sewn seam is reinforced with an outer binding to further enhance seam strength and barrier quality

### **Color**

White

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$222/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

# WORKING DRAFT

## **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

## **Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

## **Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

## **Accessories**

None

## **Special Requirements**

### **Training Requirements**

No special training required

### **Training Available**

Yes. DuPont will provide specialized group training upon request.

### **Manuals Available**

Permeation Guide available

### **Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

### **Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

### **Testing Information**

Physical properties:  
Basis weight (ASTM D3776–85) 3.1 oz/yd<sup>2</sup>  
Thickness (ASTM D1777–64) 10.3 mils  
Mullen burst (ASTM D3786–87) 78 psi  
Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 42/45 lb  
Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 11/9 lb  
Permeation data available by calling 1–877–797–5907 or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

### **Applicable Regulations**

None

### **Health Hazards**

None

### **Communications Interface Capability**

Not applicable

### **EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® SL Coverall*

**ID# 118**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

42125

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, elastic wrist, and ankle

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

**Agents Protected Against**

Nerve agents (GB and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)**

**Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

A broad range of liquid chemicals. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

Fabric test data: Average breakthrough time  
VX: Greater than 12 h at 10 g/m<sup>2</sup>  
GB, and L: Greater than 6 h at 10 g/m<sup>2</sup>  
D: Greater than 3 h at 10 g/m<sup>2</sup>. For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Recommended Use(s)**

Emergency response, crisis management, remediation, medical triage, minor invasive surgical operations, and decon

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

9 lb/ctn and 12 unit/ctn

### **Package Size and Volume**

16 in L x 10 1/4 in W x 14 1/8 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Bound seam—tightly sewn seam is reinforced with an outer binding to further enhance seam strength and barrier quality

### **Color**

White

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$170/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

<b>Use/Reuse</b>	Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.
<b>Laundryability</b>	Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.
<b>Accessories</b>	None

## **Special Requirements**

<b>Training Requirements</b>	No special training required
<b>Training Available</b>	Yes. DuPont will provide specialized group training upon request.
<b>Manuals Available</b>	Permeation Guide available
<b>Surveillance Testing Requirements</b>	Visual inspection (for holes and tears) prior to use
<b>Support Equipment</b>	Appropriate respiratory, foot, eye/face, hand, and head protection
<b>Testing Information</b>	Physical properties: Basis weight (ASTM D3776–85) 3.1 oz/yd <sup>2</sup> Thickness (ASTM D1777–64) 10.3 mils Mullen burst (ASTM D3786–87) 78 psi Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 42/45 lb Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 11/9 lb Permeation data available by calling 1–877–797–5907 or go to <a href="http://www.dupont.com/tyvek/protective-apparel">www.dupont.com/tyvek/protective-apparel</a>
<b>Applicable Regulations</b>	None
<b>Health Hazards</b>	None
<b>Communications Interface Capability</b>	Not applicable
<b>EOD Compatibility</b>	Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® SL Coverall*

**ID# 119**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

42127

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, elastic wrist, and ankle

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Nerve agents (GB and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)  
Agents Protected Against**

Not specified

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

A broad range of liquid chemicals. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

Fabric test data: Average breakthrough time  
VX: Greater than 12 h at 10 g/m<sup>2</sup>  
GB, and L: Greater than 6 h at 10 g/m<sup>2</sup>  
D: Greater than 3 h at 10 g/m<sup>2</sup>. For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 621, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Recommended Use(s)**

Emergency response, crisis management, remediation, medical triage, minor invasive surgical operations, and decon

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

10 lb/ctn and 12 units/ctn

### **Package Size and Volume**

16 in L x 10 1/4 in W x 14 1/8 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Bound seam—tightly sewn seam is reinforced with an outer binding to further enhance seam strength and barrier quality

### **Color**

White

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$172/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.



# WORKING DRAFT

**Use/Reuse** Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

**Laundryability** Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

**Accessories** None

## **Special Requirements**

**Training Requirements** No special training required

**Training Available** Yes. DuPont will provide specialized group training upon request.

**Manuals Available** Permeation Guide available

**Surveillance Testing Requirements** Visual inspection (for holes and tears) prior to use

**Support Equipment** Appropriate respiratory, foot, eye/face, hand, and head protection

**Testing Information** Physical properties:  
Basis weight (ASTM D3776–85) 3.1 oz/yd<sup>2</sup>  
Thickness (ASTM D1777–64) 10.3 mils  
Mullen burst (ASTM D3786–87) 78 psi  
Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 42/45 lb  
Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 11/9 lb  
Permeation data available by calling 1–877–797–5907 or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface Capability** Not applicable

**EOD Compatibility** Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 120**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

63122

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, boot, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)  
Agents Protected Against**

Not tested

**Biological Warfare (BW)  
Agents Protected Against**

Not specified

**Toxic Industrial Materials  
(TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel fax-on-demand service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

# WORKING DRAFT

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

3 lb/ctn and 4 unit/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Thermo Bond seam—sewn and taped. This exceptionally strong and chemical resistant seam construction provides a reliable barrier against heavy liquid splashes and rigorous seam stress.

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$101/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

### **Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

### **Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

# WORKING DRAFT

**Accessories**

None

## **Special Requirements**

### **Training Requirements**

No special training required

### **Training Available**

Yes. DuPont will provide specialized group training upon request.

### **Manuals Available**

Permeation Guide available

### **Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

### **Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

### **Testing Information**

Physical properties:

Basis weight (ASTM D3776–85) 2.1 oz/yd<sup>2</sup>

Thickness (ASTM D1777–64) 6.0 mils

Mullen burst (ASTM D3786–87) 66 psi

Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb

Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb

Permeation data available by calling 1–877–797–5907 or go to

[www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

### **Applicable Regulations**

None

### **Health Hazards**

None

### **Communications Interface Capability**

Not applicable

### **EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 121**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

63125

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, elastic wrist, and ankle

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

Not tested

**Agents Protected Against**

**Biological Warfare (BW)**

Not specified

**Agents Protected Against**

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel fax-on-demand service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

3 lb/ctn and 4 unit/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Thermo Bond seam—sewn and taped. This exceptionally strong and chemical resistant seam construction provides a reliable barrier against heavy liquid splashes and rigorous seam stress.

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$87/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

<b>Use/Reuse</b>	Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.
<b>Launderability</b>	Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.
<b>Accessories</b>	None
<b><u>Special Requirements</u></b>	
<b>Training Requirements</b>	No special training required
<b>Training Available</b>	Yes. DuPont will provide specialized group training upon request.
<b>Manuals Available</b>	Permeation Guide available
<b>Surveillance Testing Requirements</b>	Visual inspection (for holes and tears) prior to use
<b>Support Equipment</b>	Appropriate respiratory, foot, eye/face, hand, and head protection
<b>Testing Information</b>	Physical properties: Basis weight (ASTM D3776–85) 2.1 oz/yd <sup>2</sup> Thickness (ASTM D1777–64) 6.0 mils Mullen burst (ASTM D3786–87) 66 psi Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb Permeation data available by calling 1–877–797–5907 or go to <a href="http://www.dupont.com/tyvek/protective-apparel">www.dupont.com/tyvek/protective-apparel</a>
<b>Applicable Regulations</b>	None
<b>Health Hazards</b>	None
<b>Communications Interface Capability</b>	Not applicable
<b>EOD Compatibility</b>	Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

*Tychem® QC Coverall*

**ID# 122**



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

63127

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, elastic wrist, and ankle

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

Not tested

**Agents Protected Against**

**Biological Warfare (BW)**

Not specified

**Agents Protected Against**



# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

3 lb/ctn and 4 unit/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Thermo Bond seam—sewn and taped. This exceptionally strong and chemical resistant seam construction provides a reliable barrier against heavy liquid splashes and rigorous seam stress.

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$93/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

<b>Use/Reuse</b>	Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.
<b>Laundryability</b>	Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.
<b>Accessories</b>	None
<b><u>Special Requirements</u></b>	
<b>Training Requirements</b>	No special training required
<b>Training Available</b>	Yes. DuPont will provide specialized group training upon request.
<b>Manuals Available</b>	Permeation Guide available
<b>Surveillance Testing Requirements</b>	Visual inspection (for holes and tears) prior to use
<b>Support Equipment</b>	Appropriate respiratory, foot, eye/face, hand, and head protection
<b>Testing Information</b>	Physical properties: Basis weight (ASTM D3776–85) 2.1 oz/yd <sup>2</sup> Thickness (ASTM D1777–64) 6.0 mils Mullen burst (ASTM D3786–87) 66 psi Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb Permeation data available by calling 1–877–797–5907 or go to <a href="http://www.dupont.com/tyvek/protective-apparel">www.dupont.com/tyvek/protective-apparel</a>
<b>Applicable Regulations</b>	None
<b>Health Hazards</b>	None
<b>Communications Interface Capability</b>	Not applicable
<b>EOD Compatibility</b>	Compatible with EOD suit

# WORKING DRAFT

## General

**Name**

**ID# 123**

*Tychem® QC Coverall*



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

63187

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, expanded back, sock boots with flaps, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

Not tested

**Agents Protected Against**

**Biological Warfare (BW)**

Not specified

**Agents Protected Against**

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

3 lb/ctn and 2 units/ctn

### **Package Size and Volume**

14 7/8 in L x 10 1/2 in W x 10 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Thermo Bond seam—sewn and taped. This exceptionally strong and chemical resistant seam construction provides a reliable barrier against heavy liquid splashes and rigorous seam stress.

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility. Very flexible with wide range of vision. Compatible with most commercial SCBA equipment.

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$79/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

# WORKING DRAFT

**Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

**Use/Reuse**

Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.

**Launderability**

Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.

**Accessories**

None

**Special Requirements****Training Requirements**

No special training required

**Training Available**

Yes. DuPont will provide specialized group training upon request.

**Manuals Available**

Permeation Guide available

**Surveillance Testing Requirements**

Visual inspection (for holes and tears) prior to use

**Support Equipment**

Appropriate respiratory, foot, eye/face, hand, and head protection

**Testing Information**

Physical properties:  
Basis weight (ASTM D3776–85) 2.1 oz/yd<sup>2</sup>  
Thickness (ASTM D1777–64) 6.0 mils  
Mullen burst (ASTM D3786–87) 66 psi  
Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb  
Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb  
Permeation data available by calling 1–877–797–5907 or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel)

**Applicable Regulations**

None

**Health Hazards**

None

**Communications Interface Capability**

Not applicable

**EOD Compatibility**

Compatible with EOD suit

# WORKING DRAFT

## General

Name

ID# 124

*Tychem® QC Coverall*



**Technology**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

**Stock Number**

63256

**Protection Type**

Percutaneous

**Equipment Category**

Coverall; zipper front, hood, sock boots with flap, and elastic wrist

**Availability**

Commercially available

**Current User(s)**

U.S. government/military, local government/fire department, emergency response teams, general industry, remediation companies, and chemical manufacturing. Specific organizations currently using item available upon request.

**Manufacturer**

DuPont Tyvek® Protective Apparel  
U.S. Highway #1 North  
McBee, SC 29101  
800-845-6962 (Tel)  
843-335-8599 (Fax)  
e-mail: tyvekinf@usa.dupont.com

**Manufacturer Type**

Domestic manufacturer

**Developer**

DuPont Protective Apparel

**Source**

DuPont Tyvek® Protective Apparel  
e-mail: Mary-Ann.Daniel@usa.dupont.com  
POC: M. A. Daniel  
888-577-6960 (Tel)

**Certification**

Not applicable

## Operational Parameters

**Chemical Warfare (CW)**

Not tested

**Agents Protected Against**

**Biological Warfare (BW)**

Not specified

**Agents Protected Against**

# WORKING DRAFT

## **Toxic Industrial Materials (TIMs) Protected Against**

Many inorganic acids, bases, and other liquid chemicals such as pesticides. For specific test data, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel).

## **Duration of Protection**

For specific test data on TIMs, call the DuPont Protective Apparel Fax-on-Demand Service at 800-558-9329 and request document 616, or go to [www.dupont.com/tyvek/protective-apparel](http://www.dupont.com/tyvek/protective-apparel). No test data available for CW agents.

## **Recommended Use(s)**

Crisis management (post decon); medical triage; remediation

## **Physical Parameters**

### **Sizes Available**

S through XXXXL. Additional sizes available upon request.

### **Weight**

4 lb/ctn and 4 unit/ctn

### **Package Size and Volume**

16 in L x 10 1/4 in W x 14 1/8 in H

### **Power Requirements**

Not applicable

### **Material Type**

Selectively impermeable composite consisting of thermoplastic barrier films laminated to high strength thermoplastic nonwoven fabrics

### **Construction Type**

Thermo Bond seam—sewn and taped. This exceptionally strong and chemical resistant seam construction provides a reliable barrier against heavy liquid splashes and rigorous seam stress.

### **Color**

Yellow and grey

## **Logistical Parameters**

### **Ease of Use**

Ergonomically designed for maximum mobility and flexibility

### **Consumables**

None

### **Maintenance Requirements**

Visual inspection prior to use

### **Shelf Life**

Store in a cool, dry environment in original packaging. Manufacturer recommends designating “for training use only” after 5 yr of storage.

### **Transportability**

Easily transported

### **Operational Limitations**

Directly relates to the physical condition of user

### **Environmental Conditions**

Can be used in all common outdoor weather conditions and climates. Rain, snow, extreme temperatures and humidity will have no effect on the suit.

### **Unit Cost**

\$122/carton

### **Maintenance Cost**

Minimum labor cost for routine suit inspection

### **Warranty**

90 d for workmanship and materials

### **Don/Doff Information**

No assistance required for donning and doffing. Average donning and doffing time is minimal.

# WORKING DRAFT

<b>Use/Reuse</b>	Discard after use. Decontamination specific to chemical exposure. Disposal per jurisdictional regulations.
<b>Launderability</b>	Not applicable. Not intended for reuse after exposure to toxic chemicals. Dirt and dust can be manually removed with soap and water.
<b>Accessories</b>	None
<b><u>Special Requirements</u></b>	
<b>Training Requirements</b>	No special training required
<b>Training Available</b>	Yes. DuPont will provide specialized group training upon request.
<b>Manuals Available</b>	Permeation Guide available
<b>Surveillance Testing Requirements</b>	Visual inspection (for holes and tears) prior to use
<b>Support Equipment</b>	Appropriate respiratory, foot, eye/face, hand, and head protection
<b>Testing Information</b>	Physical properties: Basis weight (ASTM D3776–85) 2.1 oz/yd <sup>2</sup> Thickness (ASTM D1777–64) 6.0 mils Mullen burst (ASTM D3786–87) 66 psi Breaking strength—Grab (md/xd) (ASTM D1682–64, sec. 5.3) 25/35 lb Tearing strength—Trapezoid (md/xd) (ASTM D1117–80) 7/5 lb Permeation data available by calling 1–877–797–5907 or go to <a href="http://www.dupont.com/tyvek/protective-apparel">www.dupont.com/tyvek/protective-apparel</a>
<b>Applicable Regulations</b>	None
<b>Health Hazards</b>	None
<b>Communications Interface Capability</b>	Not applicable
<b>EOD Compatibility</b>	Compatible with EOD suit